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2 th May 1956

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up till 3.45 p.m.

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CENTRAL INTELLIGENCE AGENCY
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DATE: ~~12 MAR~~ 1981 REVIEWER: _____

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Dear Sir :

Since you telephoned I have gathered some documents and made some condensed explanations in order to give you and your experts an idea about what it concerns.

Allow me to come at least with some documentation because I would not like to write such a letter to Mr. Dulles without any justification.

Certainly my justification cannot be read in 5 minutes and many questions may crop up which I have to answer.

But if the contents of this justification cannot be refuted, then it simply means that Marx was wrong on the one hand and on the other hand that our attack on communism is wrong too.

Or I run the risk to run into trouble with both sides and communistic and capitalist science would gang up brotherly together to show that I was wrong and which would be a marvelous sight.

Up till the present, Karl Marx's Das Kapital has been a weapon in the hands of the Russians by which they succeeded to dominate in a comparatively few years half of the world's population not only, but we have not even succeeded to get rid of the communists in our own country and which we can easily reach even in our prisons. For the simple reason that we have no adequate means to make once and for all an end to the Marxist theories.

Marx used a simple formula which I named the linen-coat one. As you will see, the basic formula I used to show that he was wrong is even more simple as it is in the form that 2 apples + 2 apples = 4 apples. And for which I do not need 800 pages to explain.

I have no "mysteries" in my value, whereas the capitalistic science is full of them.

Marx's Das Kapital is one of the most difficult books to read. Anyhow it conquered the world or at least in nearly half of it and if the Russians become a bit more liberal (and which they are doing) we will have more trouble with them as with Stalin.

I have added some enclosures to this letter, which I will describe:

1. The development of a theory to show from a scientific point of view that Karl Marx's theory of value and consequent dialectic materialism was wrong.

2. I have here followed the American custom to ask "Who" said so, and to which I not altogether agree, because I think that it is better to read WHAT has been said. I have given copies of different testimoniums which I gathered. One document is missing, my naturaliza-

- tion paper as an American Citizen, but which is at your disposition. Anyhow the different documents give at least some account of what I have been doing in the last 70 years.
3. A diagram The Making of a Product to which I referred on page 3 of enclosure 1. It shows some development on the same diagram which you will find in enclosure 12 on page 14.
 4. A translation of the article ENERGY TRANSFORMATIONS and which has been published in Holland in the communications paper of a small engineers association of which I am still a member. It was on this article that I received an invitation of Mr. Dunnewolt to write an addendum to his book of which I enclose the dutch copy under 13 and the english translation which I just received under 14.
 5. The pendulum tables and diagrams which belong to enclosure 4.
 6. The diagram Making a Universe from enclosure 12, page 37. Which was written in 1950 by Professor Reiser and myself, mainly to obtain critics of Science. The result was that we were accused of meta-physics because we used the word "God."
Since then I dropped all meta-physics without giving anything up on the fundamentals.
After all, going down to the bottom of the fundamentals, the communist maintain that man is superior on this planet, whereas the capitalistic science "believes" that it is not so.
In the Foreword of the addendum on page 3 you will find my conclusion and which is neither capitalistic or communistic but based on the law of the conservation of energy.
Because capitalistic science got mixed up in "mystics" it could not defend its own thesis.
 7. A copy of the Final Control Form. This is an essential document to show by "experiment 2" that the linen-coat equation is no equation at all. In enclosure 12 you will find a short description and so you will find on enclosure 15 on the pages 55 etc.
Behind this Final Control Form is something else. It would open the door to real Scientific Management and economical production to which we must come in the future in order to compete with the Russians on the world's markets. To obtain the data on the Final Control Form we could use all the overage Americans and could give them occupation and more money as they can get from the Social Security and use at the same time the enormous experience embedded in about 15 million Americans. However this would require some more time to explain, but also this I could show with documents.
 8. The brochure of Science and Freedom to which I referred on page 7 of enclosure 1.
 9. The brochure of Admiral Radford's Office, Militant Liberty. What André Guide said in enclosure 8, sustained by the world's greatest conventional scientists, makes a sob sister story out of Radford's brochure.
 10. I could not resist to enclose the Oppenheimer clipping, because it illustrates, enclosure
 11. Science and the Common Understanding. On the pages 78 and 79,

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 starting with "We should have not the great insight, etc. is the most beautiful evidence for the correctness of Marx's theories. I have shown here that Oppenheimer's Ideas and Opinions are wrong. The title of his book had really to be : Science and the Common Mis-Understanding.

By this I will not say that Oppenheimer is a communist in the political point of view that he would overthrow the U.S. Government by force of would give away secrets to the Russians, but simply that he showed that conventional capitalistic science was no different as the communistic one.

12. The brochure Where Karl Marx went Wrong.

13. The dutch copy of Dunnewolt's book WAAR HET OM GAAT.

14. The english translation of this book and which I just received. I bet my hat that it will not find a publisher in the U.S.A. as even this book is not reading For ever Amber and a Publisher has to live also and has not Admiral's Radford's office purse behind him.

But like in Holland a few well placed H bombs on England and that would finish the song " There will always be an England."

15. A rough sketch of the addendum and which I wrote in the english language in order to get Reiser's comments. As a matter of fact it has to be reworked but anyhow it shows already that Dunnewolt had not been day-dreaming.

One of the difficulties is to find somebody who can translate my english into readable one without mutilating the meaning.

Anyhow I will write it also in the dutch language in which they only changed the grammar since I left Holland.

But on the condition that my thesis cannot be refuted it does not need too great intelligence to see that the combination would finish once and for all intellectual communism.

It might open also the eyes of some capitalists to understand that Money is something else as to count it in the millions.

It would also not cost 36 billion dollars in one year to achieve that purpose.

16. The Validity of the Human Totalitarian Systems which was written by me in 1954 but for which it would be impossible to find a Publisher, even if the english was corrected. It does not contain yet the Reason of Gravity.

17. Reading Dunnewolt's book it cannot be else as to observe that also he got mixed up in mystics. Therefore on page 8 of the 3 rd. edition, enclosure 13 you will find a citation by Einstein in the english language.

You will find the same citation in

18. Lincoln Barnett's book the Universe and Dr. Einstein on page 117. However on page 118 Einstein wrote about " presence " of the same thing which he called on 117 " mystical."

Nevermind how you will take semantics, these two words are not identical and therefore I wrote Dr. Einstein, who always refused also Reiser an idea about the Products formula, about this.

19. He wrote me that it was a translation error but I know also the german language pretty well.

Einstein said also that God did not play dice with the Universe. In that direction he was absolutely right because what we call "God" is the most "real" Energy we know or the law of the conservation of energy must be a fake and that would make it necessary to rewrite our entire physical science.

Which would not be such a disaster as anyhow it has to be rewritten if the contents of this thing cannot be refuted.

On the other hand our present conventional science is even more conservative as the most orthodox of our services of religion. And I have explained what means "inertia" so that I will not be downhearted if even your Office will say : this is beyond our "purviews" please go somewhere else. And without giving the slightest reason for it.

On the other hand there are 10 million Dutchmen threatened with total annihilation if only ONE H bomb falls in a wrong spot. And there are also 45 million Englishmen plus the rest who would face the same ordeal if things went wrong.

That Dunnewolt's book had 3 editions since the end of 1954 is something which is remarkable for a small country as Holland.

It is not written for the multi-millions but for millions enough. My story in combination with his would reach the people left out, but it are just these people who count.

Assume however that the contents of my thesis cannot be refuted and this has not been done yet, would it not be more efficient that the examination of this story came from the U.S.A in the first place than from the other side of the Atlantic.

Respectfully yours,



B.G.H. Vanderjagt.

OF VIEW THAT KARL MARX'S THEORY OF VALUE WAS WRONG.

GENERAL OBSERVATIONS :

1. Though I speak four languages fluently and can read and understand a few others, english is not my mother tongue so that I apologize in advance for the many errors you may find in this text. On the other hand, the fundamental means I use are physics and mathematics which are international and not subject to gramatical errors.
2. I am an engineer and educated in the so-called exact applied sciences, which are non-diplomatic. Therefore in advance I apologize also if in connection with point 1, my conclusions may sound sometimes too frank.
3. For exemple : I have in front of me a letter written by a U.S. Senator from which I quote : " I think we should be very much concerned with finding means of presenting an accurate portrayal of ourselves to other people. If we could bring to them an understanding and evaluation of our political freedom, economic advantage and cultural flavor, we will have made a great step forward. This is the strongest weapon we have and our problem is to utilize it fully and wisely. Because it is not a mathematical formula, it is more difficult to transmit. It is the application of our political theory, and is more meaningful to life than symbols and equations." end quote.

Nevermind how nicely said, the Senator was not capable to show that Marx's fundamental equation was wrong and thus had to admit that it was right.

I know that the Senators words represent the general ideas of the American people and its leaders in general.

The trouble is now that Marx comes with something what is internationally understood and what has not to be experienced. Against this we place something which has to be experienced and which is impossible for the large majority of even the better educated people and which have not the means to come even to the U.S.A. on a visa.

The majority of the people in Europe have not forgotten what happened after 1929 and which only the second world war changed radically.

It may now be undiplomatic for me to say, but in my opinion and which is based on the knowledge of a large part of the world in which I not only traveled but also worked, that it is exactly the reason why we are gradually loosing ground against communism.

4. As a result of the Senator's words, by the Voice of America, etc. etc. the U.S.A. has been trying to reach the multimillions of people which never can experience the American System. But it has never reached even the few thousands which have the existence of all these millions in their hands. Therefore all our descriptions have had the effect that we are not in a worse position as we are at the present time. As I will show you in the following, there is only " one " language which " nobody " can deny and it is by that language, the " only " one by which it is possible to reach the men who have the destiny of this world's population in their hands.

At the same time it will be possible to show that the words spoken in Gettysburg on November 18 th 1863 were basically scientific and not political.

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 To follow in another way the development of this theory I have included photostats of different testimonia from highschool to the last years in the U.S.A.

The testimonia numbered 1 to 11 show that I had a varied practical and theoretical education in engineering and up to that time I never thought about the things which later developed.

It started however in Marienburg in Surinam (see testimonium 12). My manager was a Scotsman and economical. A lot of things did " cost " too much. One day I asked him to give me an exact idea of the "cost of a product." I did get a story but not something in exact applied science.

How far we have advanced in that direction it is easily possible to try to ask the question to the main economists of the U.S. Government.

From Marienburg I went to the technical university in Delft (13) as my german study was not considered sufficient. From Professors in mathematics and economics I did not get a better answer. I went to the Dutch East Indies and the question started to intrigue me as it was the basis of what we like to call " scientific management."

There I established myself as private consulting engineer and came in contact with the largest enterprises. But nobody could answer my question, so that I did give it up and started to try it myself. It took me quite some time, but I found a solution in 1924 and which was published in a dutch engineering paper and is still in the library of the ASME in New York. After all it was a very simple one of the form (in words)

$$\text{COST OF A PRODUCT} = \frac{T_2}{T_1} \text{ MATTER} + \text{LABOR} + \text{MONEY}$$

in which T1 and T2 denoted the time limits between which the product was made.

Matter was all matter, solid, liquid, gaseous or any other state.

Labor represented all manual, mechanical and mental labor.

Money represented all these services as depreciation, insurance, reservation, interest, etc. which are only represented by sums of money.

The formula could be expressed as a definite integral equation of the form :

$$P = \int_{T_1}^{T_2} a \, dx + b \, dy + c \, dz$$

I "thought" that I understood what meant matter and labor and money but I had trouble to understand the meaning of what we call " time."

Thus I went to a wellknown Professor in physics and mathematics and asked for an explanation. I got one in the form : you can talk your head off about time, because nobody understands it.

In 1930 Sir James Jeans published his book The Mysterious Universe and in which he wrote that as long we did not understand the true meaning of what we call time we could never solve the question of selfdetermination and lots of other things. In a conversation which I had in London with Sir James in 1931 he could give me no better information.

In the mean time I developed the cost formula in a practical method of which I can show proof. A Unified Method for Cost Calculation and Control of Production and by which it was possible for me to discover and solve problems, as the mechanical spinning of coconut fiber which were hitherto deemed technically impossible.

I could show also that this method would install real scientific management and could solve another very important American problem : to provide work for the millions of overaged. And come to real economical production.

In the typewritten pages is an account of my work as consulting engineer and why I went to the Philippines in 1939. And stranded in New York in 1940 penniless but glad to have saved my life.

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 The cost formula opened lots of theoretical questions. By graphical means I found some new curves which were also published and of which I have still a copy (in the dutch language). But the main thing what did intrigue me was the question : what is really a product in physical and mathematical language.

I found that solution, and which was also very simple in 1940 when I was in New York and with more time on my hands as I ever had before.

It was in the same algebraic form as the cost formula, but in words:

$$\text{PRODUCT} = \frac{T_2}{T_1} \text{ MATTER} + \text{LABOR} + \text{IMAGINATION}$$

Again came the two time limits.

Matter was the same but the labor in this case were forces acting over distances or manual and mechanical labor.

Under Imagination was understood however something more as just cooking up an idea. In order to cook up an idea something else is needed as first must function the tummy and then the heart and then the brain which makes all the emotions possible and also reproduction, in short Imagination is the total energy which makes a man tick.

Attached is a diagram which illustrates the formula.

All at once I saw the significance of this formula from a scientific point of view.

Anyhow I went to Puerto Rico and during the next 5 years was very busy. When I came back I came in contact with Professor O.L. Reiser who is head of the philosophical department of the university of Pittsburgh.

He became interested in my work as he sensed its possibilities. Thanks to his instructions and guidance and access to things which were outside my reach in the U.S.A. I have been able to develop this theory further so that it can be presented to the outside world,

Under General Observations, point 4 I observed that there was one language to which everybody HAD TO AGREE.

As it is the basis of further discussions I will develop its thesis and which is extremely simple. The motive was the following: One day some six years ago Reiser asked me to ~~dinner~~ lunch with him in the university. On our table were several other Professors. It was just a time that it did not go so well between Moscou and Washington. One of the Professors observed that if they could only agree on one thing it would be at least something on which could be build up further, but there seemed to be literally nothing.

There were apples on the table, generally not on an American table and which attracted perhaps my attention. Thus I said : I guess that there is at least something on which Moscou and Washington agree, namely that

$$2 \text{ apples} + 2 \text{ apples} = 4 \text{ apples.}$$

The answer was typical professional : you may be right, but WHY ? On that question was no answer by the about dozen professors of different faculties. If there was an answer, could it be a basis on which further agreements could be build up ?

Science has definitely discovered that there were plants on this planet before man appeared. Probably there were crab apples. Assume now that from such a historical apple tree 2 apples fell together because they were ripe and the apples rolled on one spot. Sometime later a gust of wind deposited another two apples on the same spot. Without a shade of doubt there were 4 apples on that spot.

But this shows that the simple apple equation was valid BEFORE man appeared on this planet.

If the apple equation may seem too simple the equivalence formula

of Einstein ~~Exxx~~ $E = M \times c^2$ can be considered. That was valid a few billion years before there were even apples.

Observing the simple apple equation, the apples are the physical things and the $2 + 2 = 4$ is the mathematical part.

The 4 apples can be observed as a "deed" the cause of an organization which appears at the other side of the equal sign.

This makes the following generalization possible: IF A DEED CAN BE EXPRESSED BY A PHYSICAL AND MATHEMATICAL EQUATION THEN ACCEPTANCE AS A HUMAN CERTAINTY IS "COMPULSORY."

The physics and mathematics (as an organization of the physics) existed before man appeared, they were not "made" by man, but only "discovered."

The energy by which Einstein discovered the equivalence formula is called "intelligence." The energy which "made" the formula a possibility as a consequence must have been somewhat more intelligent as even Einstein's.

The above generalization makes the following definite statement possible: the basis of a general human agreement is a NON HUMAN ENERGY.

If a deed cannot be expressed in a physical and mathematical equation, then it is impossible to have it accepted as a human certainty.

Compare now the words of the Senator with the linen-coat equation of Marx and which even the Senator could not deny and you have a scientific reason WHY we have been in general so comparatively unsuccessful to state the American proposition.

To the above generalization the following conditions must be attached. By experiments it must be proved that the organization always leads to the same results and which were not different in the past and will not change in the foreseeable future.

There are however some mathematics which do not show an organization of the physics. For example 5 Horsepower plus 10 HP are NOT always 15 HP. And there are more such cases.

This leads to the conclusion that there are two kinds of mathematics:

- a. The mathematics ~~Exxx~~ as an organization of the physics and always ~~Exxx~~ exact.
- b. The mathematics of numbers and which are not always correct.

The difference between these two mathematics is: that the first mathematics are NOT a human invention, but only a discovery, whereas the mathematics of numbers IS a human invention, though even this invention is based on a non human construction in nature and which we will explain later. And which lead to the statement: that physics and mathematics are the most exact communication with the Energy which was responsible for them.

It is on the above basis that I have developed the further theories and thus excluded what is called "metaphysics."

If the above cannot be refuted (and this has not been done yet) then it contains also the proof that the theory of value and consequent dialectic materialism by Karl Marx was wrong, but at the same time that the ideas and opinions of conventional science needs some overhauling. Because it does not make the differences in mathematics and does not acknowledge any energy it cannot weigh, that is at least what is said and which is not exactly true.

The products and cost formulas which agree with all the conditions have thus to be accepted, compulsory.

In the foregoing pages we have answered questions which conventional science has never been capable of answering:

1. A physical and mathematical equation for the cost of a product.
2. The same for a product itself, material or otherwise, thus any product.
3. What really mean physics and mathematics.
4. The fundamental reason of a general human agreement.

To understand the products formula in its entirety it is necessary to have an understanding of what means Time, Matter, Labor and Imagination. Thanks to Einstein we know now that Matter is only another form of energy.

Mechanical and manual labor are forces acting over distances. We have explained what is meant under Imagination. Human imagination is that total energy which makes a man, or matter in general, tick.

We have now to develop the idea of the true meaning of what we call "time."

I have inserted a copy of the article which contents were published in Holland, that is a translation of this article :

ENERGY TRANSFORMATIONS.

On page 1 you will see the heading THE FREE FALL AND THE REASON OF GRAVITY.

On page 2 I have used the familiar equations. The unfamiliar one is perhaps the one for time

$$t^2 = \frac{2 \times W}{G \times g}$$

On page 4 I came however to the equation $t^2 = W : Wq$ and which you will not find in any present text book.

Which meant in fact an enlargement of the quantum theory, but which at the same time showed the true meaning of time, which is nothing else but a number of units of energy (quanta) to overcome the change of position, or the resistance against transformation.

But as I further wrote, numbers and time are splendid human inventions but do not exist in nature.

And now the entire products formula becomes understandable as the time limits are nothing but the energy limits (in quanta) needed for the transformation of a product from one position to another or for the transformation of the product itself.

THE REASON OF GRAVITY.

On November 5 th 1955 I attended a meeting in Rotterdam, Holland, in which my article on the reason of gravity was discussed and could not be refuted. There were more than 30 learned men present, but it would be further examined.

On November 10 th 1955 I attended a meeting in Washington of the American Society of Mechanical Engineers in which Professor Fred Singer, of the University of Maryland did give a lecture on THE ENGINEERING PROBLEMS IN THE MAKING OF THE FIRST MAN-MADE SATELITE.

At the end of the meeting in which the word " gravity " appeared as many times as the word Green in the telephone directory, I posed the simple question : What is the fundamental reason of Gravity ?

Professor Singer could not answer that question and neither one of the about 200 engineers and scientists present.

If the calculations in the article about Energy Transformations cannot be refuted, then there is the grant that the satellite now under construction will run about 10000 kilometers per hour to

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 slow. And on which \$ 25 million will be spent.

This investigation into the meaning of gravity and which led also to the true meaning of time led to another question : What means really " Space."

And not any more on the basis of metaphysics but on comparatively simple calculations and considerations we came to the conclusion that Space was filled up with an Energy with the main properties which are given under a to end of page 5.

I will explain shortly these properties:

- X a. Infinitely intelligent. I have explained this already on page 4 to a certain extent.
 - b. Infinitely powerful. On the diagram Making a Product, it is this Energy which was responsible for the " making " of the material particles which form the atoms the basis of matter. We now know the terrific energy contained in even one pound of matter. Look at night into the sky and the word infinite is the only one at our disposition.
 - c. Omni-present. This has now been explained by the meaning of Space.
 - d. Massless. When a man is alive he can move his arms, etc. A moment later he can drop dead. At that moment his mass did not change but something left his body, the main part, and this was " energy ".
- In the fission of Uranium 235 it falls into Krypton and Barium or about 16 atomic units are lost. They return to space, which is indestructable, but also massless.
- Not on the basis of metaphysics but on the foundation of our entire present conventional science : the law of the conservation of energy.
- e. Indestructable. Eternal. Which follows from above.

The above would finish once and for all " dialectic materialism " but, also change most of the ideas and opinions of present conventional science, as the slogan " space and time " would have no direct meaning at all. Nature knows only energy transformations.

The article on Energy Transformations contains an investigation on the pendulum which is illustrated by the diagrams, attached.

It shows also that energy quanta play a role in the transformations of the products themselves.

Attached is also a diagram Making a Universe and which shows also on the basis of what we know about evolution that this has been " directed."

I am fully aware that the Energy of which I have summed up the main properties can be called by another name, but this would be at the present " unscientific."

We have now explained sufficiently to discuss the fundamental equation on which Karl Marx developed his theory of value :

20 yards of linen = 1 coat or
 20 yards of linen are worth 1 coat.

With the Final Control Form of the Unified Method of Cost Calculation and Control of Production I could show definitely that the above basis of Marx's theory of value is NOT a physical and mathematical equation. (COPY OF FINAL CONTROL FORM ATTACHED.)

Whereas I can show that the formula for a product IS an ~~xxx~~ equation. All the elements to make 20 yards of linen are quite different in Matter and Labor and Imagination as for the making of 1 coat.

It is this what conventional economical science has never been able to show.

But there is something else to finish once and for all the basis of Marxism as a kind of biblical science.

THE TRUE MEANING OF MONEY.

On page 99 of "Capital" under Exchange Marx writes : " Money is a crystal formed of necessity in the course of exchanges."

On page 108 Marx writes : " The value, or in other words of human labor contained in a ton of iron, is expressed in imagination by such a quantity of the money commodity as contains the same amount of labor as the iron."

And this again is fundamentally wrong. The products formula shows that " any " product whatsoever is a finite quantum of energy.

Nature uses " energy " in all its different forms as a means of exchange. With the institution of money, man has followed nature without being aware of it, but from the two formulas appears without a shade of doubt that what we call money is nothing but an equivalent for the exchange of energy in " all " its forms and not only of that of human labor.

As a consequence of the cost formula and also of the products formula any product has only ONE value : its cost of production.

Conventional capitalistic and communistic economical science, nevermind how they try to explain their so-called differences agree on the main point, namely they call the value of a product its " sales price." And of which there are 13 in one dozen.

It is one of the reasons that we have never been capable with all our scientific management to get an at least as stable as possible economy. It was always ruled by the so-called laws of supply and demand which are no laws at all but just consequences of human ignorance and what is worse, stupidity.

In the above explanations contained in the article Energy Transformations we have given answers on the questions which conventional science is not able to answer.

5. What is the true meaning of Time ?
6. What is the reason of Gravity ?
7. What really means Space ?
8. The " existence " of an Original Energy, the most " real " of all, as it is the source of everything.
9. The true meaning of Money.

Place against the above the fundamentals of Marxism and from a scientific point of view it has not left a leg to stand on. And it is on these fundamentals that some of our greatest scientists agree with Karl Marx.

THE BASIS OF WHAT WE CALL " FREEDOM."

In a brochure of the Committee on Science and Freedom of December 1955, and which Honorary Sponsors list cites names as Dr. Robert Oppenheimer, Earl Russell, Lise Meitner and others you can read on page 28, Andre Gide quoted, in which he said : " But " he goes on, I dare hardly add " for freedom " as I really do not know what is meant by this concept." (the brochure is attached).

Attached is also a brochure issued by Admiral Radford's office in the Pentagon.

The sentence on the top of page 3 shows our fight against communism is. The Senator says he will go at the multi-millions, which he

8.

cannot reach anyhow. Militant Liberty says literally : "This demonstrates what a few consecrated, dedicated, motivated people can do when they understand and are able to explain WHAT they believe and WHY they believe it." (The underlining is by me)

Anyhow the above gives me the lift to try to do it too, only for the moment I stand alone against the combined communistic and capitalistic science, plus something else which is still more difficult.

On page 5 it speaks on Strength and Weakness of Free World Ideology. Is it perhaps because it has no ideology to speak of, but a certain set of ideas, which are beautiful, but have no foundation.

In all the explanation of both sides it must be kept in view ONE fundamental thing : MAN HAS NEVER BEEN SO CLEVER TO CHANGE IN THE LEAST ANYTHING AT THE LAWS OF NATURE.

He can use them to his own profit or go against them which ends mostly in his own destruction.

Let us now consider a " beam " resting on two points. For simplicities sake we will assume that a load is attached on the center of the beam. Under the stress the beam starts to deflect and which deflection can be calculated when the material and " form " are known.

If now the load is taken away then for exemple in the case of a steel beam, the beam springs back to its formal position. Only if the load exceeds a certain quantity then the deformation becomes permanent.

This experiment shows that this so-called piece of dead matter shows a " resistance against transformation " also called " inertia. "

To overcome this inertia, we need energy. The greater the inertia, the more energy we need for the transformation.

In the article Energy Transformations I have shown that this energy is composed out of a number of energy quanta and it is this number which is identical with the number of units which we call " time. "

I have explained that the human made mathematics of numbers was only possible because all energy transformations occur in " exact " quanta and the discovery of that phenomenon we thank to Professor Max Planck and which history will probably register as the greatest discovery made in science.

For exemple, as I have shown, in engineering the fundamental energy quantum would be .5 " g " kilogram-meters.

Let us now consider another piece of matter, called " man. " Which is so-called " alive. " Due to the fact that it possesses what I called in a general word " Imagination. "

Under the load " stress " furnished by the contents of Marx's Capital, nearly half of the world's population have been " deformed " to communism. The " few consecrated, dedicated, motivated people " have been capable to do that because they were able to explain WHAT they believe and WHY they believe it. And believed it to such an extent that they did not allow anybody else to believe otherwise.

The steel beam and all other matter, for exemple the pots of cold water, see page 14 of Energy Transformations, show also a resistance against transformation. This is the fundamental reason that a perpetual motion is an impossibility. (that is to say a human made one)

But then that resistance against transformation is a " natural property " of Matter. Only by addition or subtraction or interaction of

other energies this resistance can be overcome.

It is now this " inertia " which gives Matter in all its forms a certain " freedom of action."

Two atoms of Hydrogen (in Space) found one atom of Oxygen and formed water, a matter without human existence on this planet is an impossibility. Or water was there BEFORE man appeared. The same atoms however can form a very dangerous gaseous substance.

We will now fall back a moment on the diagram Making a Universe. We see that the evolution of Matter followed a pattern on which man has not had the slightest influence. First were the particles which obtained their electrical charges so that they could come and stay together, and formed atoms, then molecules, etc. until " man."

On page 7 of Energy Transformations, by the pendulum we have explained the influence of Matter on Gravity, that is the influence of Matter on a natural law. Though it could change its " own " course in the end it had to obey to the laws of nature. And generally for its own good.

On the diagram Making a Universe we have shown that at the same time Matter evolved, also the Imagination IN Matter evolved and which combination has reached its highest effect in " man."

Or the total evolution is " directed " but by giving the Matter in the Universe a " freedom of action " to choose its own way. But not a freedom of action to that extent that it could change the natural evolution.

Not based on metaphysical or beautiful stories but on physical and mathematical science (the most exact communication with the Original Energy) what we call " freedom " is a natural property of matter and man has never been capable of changing anything on the laws of nature. It is the reason why in the end never a dictator held.

It is the fundamental reason that the words spoken in Gettysburg were something else as a political speech.

THE REASON OF MAN'S EXISTENCE ON THIS PLANET.

The diagram Making a Universe shows the evolution from particle to man, at least on this planet. That man on this planet would be the only intelligent being in the whole enormous universe is hardly understandable. This evolution is still going on in all directions. Like the atoms Hydrogen and Oxygen assisted in the making of water and which made further evolution a possibility it cannot be else as Hydrogen and Oxygen were there with a reason " to assist the general evolution." With other matter it has not been any different, so that the reason for our being on this planet is to assist the evolution in general and the evolution of the human standard of living in special.

It may then appear that the making of H bombs is not exactly profitable for that evolution. Though there is another general law in nature, that of self-defense and which forces man now and then to do things which he does not like to do, but because other men threaten him with destruction. But it is then his duty to show the other men how stupid they are.

Though what we call " Money " is one of the prime necessities for the evolution of the human standard of living, it can not be denied that

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 the " use " which is now and then made of that money is not profitable for that evolution.

MATERIALISM AND THE PRODUCTION OF MATTE R.

Without material products it is impossible to exist.

The products formula shows however that Matter is something quite different as a chemical or physical formula as matter sustains our imagination.

The production of the material necessities for the evolution of the human standard of living therefore is not only a question of making dollars and cents.

The natural freedom of action giving to matter points unquestionably in the direction of what we call " Free Enterprise."

The necessity to produce these products for the evolution of the human standard of living points unquestionably in the direction that the individual enterprises cooperate with each other in order to obtain the most economical production so that the products can be made available to the greatest possible quantity of men.

It is in this direction in which we are, nevermind what is said about our economical production and scientific management, still treading virgin fields.

The cost formula shows that there is only ONE method of obtaining the cost of a product. In our present enterprises are so many different methods used as there are managers.

In order to come to a more economical production on fundamental system is a necessity and this system has to follow the natural organization. It would go too far for the moment to show this organization but to a certain extent, just as in the use of money we follow a natural organization without being aware of it.

THE BASIS OF THE PRODUCTS FORMULA.

It will be evident that one of the fundamentals of this new theory is the products formula. There were 9 basic questions which led to its formulation. As a product was taken a common building brick, an essential human made product and which could be called the cornerstone of our human civilization. The questions are the following :

1. Is it possible to make a brick without using Time ?
2. Is it possible to make a brick without using Matter ?
3. Is it possible to make a brick without using Labor ?
4. Is it possible to make a brick without using Imagination ?
5. Is anything more needed to make a brick and which cannot be included in Time-Matter-Labor-Imagination ?
6. Is the amount of Time used an exact amount ?
7. Is the amount of Labor used an exact quantity ?
8. Is the amount of Matter used an exact quantity ?
9. Is the amount of Imagination used an exact quantity ?

Considering the explanation on Time and Imagination and the quantum theory by Planck and the enlarged quantum theory as we have explained in the Free Fall, etc., it cannot be else or the answers on the first 4 questions must be negative. On the 5 th question : no more is needed and on the last 4 questions it is positive.

If only one product could be found which was not included in the above main categories the products formula would be only partially right or a human invention. If this cannot be found then it is a human discovery.

Though I cannot agree with the theory of value of Marx and his consequent dialectic materialism I would never picture Karl Marx as a scoundrel or a mad man. He lived in the Maxwellian age. Science came slowly to its own when it came from under the domineering influence of the churches. Only a comparatively few years ago Galileo was put in prison because of his scientific discoveries. Science started to discover things which were in contradictions with the writings in many of the different religious books.

The result was that Matter monopolized Science and the Soul monopolized the Churches.

In the eyes of the churches a materialist was equal to a stupid or a scoundrel. In the eyes of science the churches occupied themselves with beautiful stories but without any scientific foundation.

You have only to read chapter X, The Working Day, in Capital to come to the understanding that Marx was convinced that with such people as the then industrialists and capitalists it was impossible to talk. The only way was to do away with them. They used the religion to keep the masses ignorant and under fear.

Workers of the World "unite." was his slogan. Little he could foresee something as the combination AFO-L-CIO. And the uses and misuses Labor made with its newfound Power.

Even 100 years back in all the European countries many people were found who could not read and write.

Science made invention on invention because with the better education of the masses and Edison became a possibility.

The difference between an educated and a non-educated man is that the educated man needs more of what we call the luxuries of life. Science was capable of delivering that. The Churches acted still as a kind of balance, because there are only a few people in this world who can really come to the conclusion that man is superior, even on this planet.

Marx has played an enormous role but his theories have become gradually a danger for the evolution of the human standard of living.

Our explanation of space and time do not coincide with these of Einstein's Ideas and Opinions (see his latest book) but which does not mean that his relativity calculations are wrong.

Though Einstein discovered that Mass changed with velocity did not mean that "all" of Newton's discoveries were wrong.

The different churches though they are fighting each other in sometimes far from Christian principles have played an enormous role in the evolution of the human standard of living.

However our present development needs something more as a negation and only a "belief" in the most "real" Energy of all. and it is the combination of Dunnewolt's book of which is enclosed an english translation and the dutch copy, now since 1954 in its third edition and which is remarkable for a small country as Holland and this explained theory and which is an evidence that Dunnewolt has not been day dreaming which can offset the influence of Das Kapital.

As already observed it is the general idea in the leading centers of the U.S. Government that the masses have to be reached and which was so nicely expressed in the Senator's letter.

But ~~xxx~~ is it possible to name another more difficult book to read as Das Kapital, especially in the old german text ?

And it was this book by which the communists conquered half of the world's population or at least brought it under its domination. And how many communists have ever read das Kapital and less understood it? From a general point of view the anti-communists have less read it and therefore it is less understood.

I agree that even Dunnewolts narrative is not reading For ever Amber and less will be my ideas even when translated into proper english. But this I can state : it is thusfar the only proof that Karl Marx was Wrong. And from a purely scientific point of view or from the point of view of physics and its organizatorial mathematics, the ONLY basis on which general human agreement is possible.

In the Washington Post of this morning appeared a speech by Robert Oppenheimer, ~~xxxxx~~ on the list of Sponsors of Science and Freedom and who did not relate that also he had no idea of what really freedom meant.

He wrote a booklet " Science and the Common Understanding." Also this is not easy reading. What he wrote on the pages 78 and 79 ~~and~~ ~~which~~ makes this completely understandable to such an extent that I could easily show that the real title of his book had to be : Science and the Common Mis-understanding.

The key to an understanding of the do and dont's in Nature is not the knowledge of a meson or any other particle, it is the Energy which was responsible for that particle but of which the Institute of Advanced Science has little idea because also Oppenheimer does not understands the true meaning of what we call Time.

And I have a letter by him telling me that the Institute does not answer questions. That is the same Dr. Oppenheimer who regrets that he has no access to the secrets of the AEC.

THE WORD " GOD."

In the enclosures I have included a paper which was written by Reiser and myself in 1950. In it you will find also the diagrams, but not yet the explanation of the true meaning of Time and Gravity. Because we used the word " God " it was considered in " learned " circles to be " meta-physical." It was for this reason that I changed into Original Energy with the explained properties. And on the basis of the law of the conservation of energy, the foundation of our present conventional science.

With these properties anybody can invent the name he likes.

THE AMERICAN BILL OF RIGHTS.

Compare the contents with what has been written here and try to find fault with it.

But with the best system and foundation for the evolution of the human standard of living gradually we have to loose ground to communism, not due to our system, but due to impossibility to defend it on the basis of present conventional science.

THE PRESENT DIFFICULTY TO EDUCATE YOUNG AMERICA IN THE PHYSICAL AND MATHEMATICAL SCIENCES.

The Russians have succeeded in raising engineers and scientists by the bushel whereas we have the greatest difficulty to attract sufficient people to qualify for these positions.

A young engineer is offered in the utmost \$ 100 per week. Whereas an electrician gets \$ 140. This because the engineers did not follow Marx's advice : Unite. That is however one reason.

Another reason is that to learn mathematics and physics is an

extremely dry proposition.

No student is taught WHAT REALLY MEANS PHYSICS AND MATHEMATICS and that it is still something else as that $a \text{ times } b = ab$.

Most of the students learn mathematics because it is a necessity to obtain a diploma.

I have had the occasion to work in a comparatively large engineering plant near Washington. Most of the engineers became so-called practical men.

If however in one way or another it could be shown that physics and mathematics are still something else as needed to calculate the deflection of a shaft, it might be that there would be more interest to understand it.

I have started my explanation with the citation of the Senator's letter.

He said that the American System is not a mathematical formula. It is the application of our political theory, and is more meaningful to life than symbols and equations.

I will finish this explanation with something that as far as I know has never been brought under an equation, but as it was published this year in Holland and none of the different Christian services of religion or even the Jewish protested I think it is possible to write it also in this explanation.

It is about 2000 years ago that Somebody did give an advice to men in order to evolve their standard of living in the right direction.

Undone from all the fringes and stories, etc., it came to the following :

Love thy neighbour like thyself.

That in itself was known already for more than centuries as it can be read in Ludovicus.

But He added something else to it which we call now the Golden Rule.

Do not do unto others what you don't like to have done to your self.

The Senator would probably say that also this was impossible to bring into an equation.

Before I do this I might call your attention that I explained that to me physics and its organisatorial mathematics is the most direct communication with the Original Energy.

Or it is from this point of view that I bring the above meanings into mathematical equations.

Love thy neighbour like thyself.

This means that you observe that your neighbour is equal to thyself. Or it is possible to write:

Thy neighbour = thy self.

From an algebraic point of view it is possible to write this in the following equation :

$$3 a = 4 b$$

and this in itself means literally nothing but that water equals water.

But add now the Golden Rule to it and then you can write the following equation :

3 a + c = 4 b + c

And now we get a quite different idea of the combination of the two advices, because "c" can mean everything. It can mean "good" but it can also mean "bad."

Or add something "bad" to your neighbour and mathematically sure and in the mathematics of the original Energy you add it to your self.

And this was the most valuable advice Humanity received for the evolution of the human standard of living. For once it was 100 % efficient, only the Originator did meet with a cruel end.

Which shows that also in that time men were not wise.

There is some relation between Marxism and Christianity and Americanism.

It shows what fundamentally wrong things can do when the others are not capable to show that they are right.

Christianism got lost in quarrels over details which had nothing to do with the teachings of Christ which were not understood by the majority of the Christians.

Americanism got lost in its slogan for dollars and which slogan was not so bad IF it could only show what Money really meant and which was not done.

Marxism was fundamentally wrong but conventional science using the same basis could only say that the communists were bad boys. But without being able to show in the same way WHY they were better.

I have tried inside these 14 pages to upset many of the vested ideas and beliefs.

It may be really a hopeless experiment, but it is written to the Central INTELLIGENCE Agency

It might be that in that Agency there are men who can easily refute my thesis and for which I would be grateful.

If this cannot be done then I can only come to the conclusion that the way we are fighting communism at the present time is very inefficient.

WASHINGTON, 20 D.C. 10 th May 1956.



B.G.H. Vanderjagt.

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ENCLOSURE. 19.

When looking through some old files I came across the attached blue print. I made it shortly before the war in France for an english friend.

It shows that even in our much vaunted business organization we follow without being aware an organization in nature and which we did not make.

It is based on the Production cycle (see above STORE) of what I called APPLICATION - ORDER - STORAGE - DELIVERY - CONSUMPTION.

In which application means applying for something and not applying something.

You may be aware that the english I used was even worse than the one I use now.

It started one night in a bar in Paris where I met some people with whom I discussed a large project for Indo-China and later one of the reasons that I left France in October 1939.

The bar served some very good drinks. One of the gentlemen could not make up his mind between a champaign cocktail and a dry Martini. All at once it appeared to me what really happened.

1. First you asked yourself : what will I drink ? Even if it is for a thousands of a second. This was the application.
2. The you did give the order to the barman.
3. He did put the glass on the counter which was the Storage.
4. Then you brought it to your mouth, which was the delivery.
5. Followed by the drinking or the consumption.

For the large project in view we did not do anything else. Before we had to ask the suppliers for all sorts of things. Then we did give the order for which legal documents were needed, etc.

Instead of a counter we had to build large stores in which the materials were stored and from which they were delivered to the place where they were consumed in the production.

For Labor we did not follow any other scheme, but the names were somewhat different. The application was now called an add in the papers. The order was called assignment. For the storage we have the name of office and in this case we had even to build houses for the engineers, etc.

All other names, but all following the same sequence.

For Money also there were other names but the same sequence. Over the Storage of Matter and Labor and Money some very thick books could be written showing some of the human follies.

The diagram is valid for General Motors or the U.S. Steel Corporation or Ford, but with some other names it is also valid in "exactly" the same sequence for the household of Mr. London. Only the Planning Office is called "parlor" and the workshop "kitchen."

Orders and applications are not written but the materials are directly obtained from the A & P or Giant Stores, etc.

On these basis it was thus technically and practically possible to construct a Unified Method for Cost Calculation and Control of Production and which I have worked out and tested into details. And which I can show.

B.G.H. Vanderjagt.

